

AWS American Weigh Scales

TL-Series

User Manual



TL-330 (330lb x 0.2lb)
TL-440 (440lb x 0.5lb)

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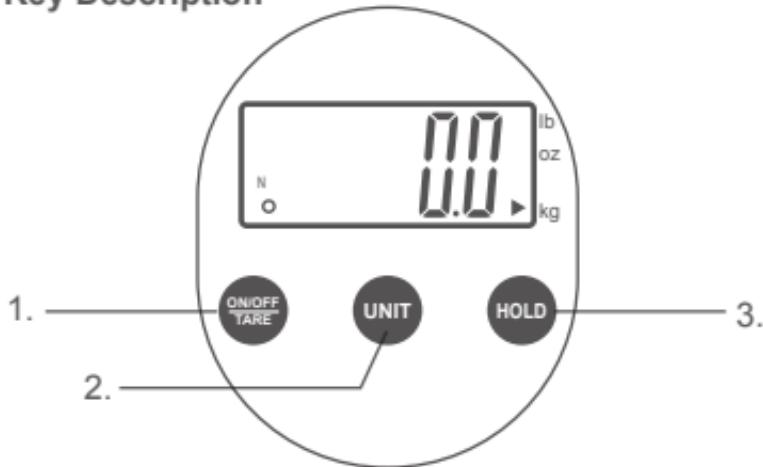
Thank you for purchasing the American Weigh TL-Series hanging scale. Please read all operating instructions carefully before use. Scales are precision measuring devices and should always be handled with proper care. To ensure years of reliable service, keep these simple tips in mind:

- Do not exceed the scale's maximum capacity.
- Store your scale in a clean, dry location. Dust, dirt, and moisture can accumulate on the weighing sensors and electronics causing inaccuracy or malfunction.
- Avoid using your scale in close proximity to strong radio wave emitting devices such as cordless phones.
- Suspend the scale from a stable point free from vibration.
- Do not drop items onto the weighing hook. This may cause damage to the load sensor.
- Avoid dropping your scale. The warranty does not cover damage due to rough treatment or overload.
- Check the batteries first if you are having any trouble with your scale. This simple step can remedy most scale issues.
- Calibration is performed at the factory. Only experienced users should perform calibration when the scale requires it.

I. Part List

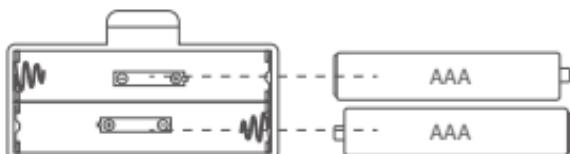
1. Scale
2. S-Hook and Shackle
3. AAA Batteries (x2)

II. Key Description



1. **ON/OFF/TARE** - Tap to turn the scale on or re-zero the scale. Hold to turn the scale off.
2. **UNIT Key** - Tap to change the unit between LB, OZ, or KG. Hold to change auto-off setting (see V).
3. **HOLD Key** - Tap to change the scale's display hold mode between Auto Hold, Peak Hold, and No Hold (see VII).

III. Battery Installation



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1. Before using the scale for the first time, check the battery compartment and remove any plastic insulation strips or packaging that may be in place to prevent battery drainage during shipping/storage.
2. If you are replacing the batteries, make sure the positive and negative contacts are properly aligned.

IV. Operation

1. Press the ON/OFF/TARE key to turn the scale on.
2. Wait for the display to display zero.
3. Hang the item to be weighed from the weighing hook.
4. Observe the weight on the display.
5. To re-zero the scale, tap the ON/OFF/TARE key.
6. To turn the scale off, hold the ON/OFF/TARE key.

V. Auto-Off Setting

This scale has a selectable auto-off feature.

1. Press and hold the UNIT key to toggle the auto-off setting on or off. A message will display on the screen to indicate your selection:

AUTO	AUTO: Auto-Off is Enabled. Scale will turn off after 2 minutes of non-use.
OFF	OFF: Auto-Off is Disabled. Scale will remain on until turned off manually.

VI. Changing the Unit of Measure

This scale can read in LB, OZ, or KG. To change the weighing unit, follow these instructions:

1. Tap the UNIT key until the desired weighing unit is indicated on the right side of the display.

- **TL-330 & TL-440 Units:** lb (pound) ▶ oz (ounce) ▶ kg (kilogram)

VII. Hold Setting

You can change the scale's hold setting between three different modes: Auto Hold, Peak Hold, and No Hold. To change the hold setting:

1. Tap the HOLD key. The display will show a letter at the left side of the display to indicate the current hold setting. These are:

A = Auto Hold - Weight is locked on the display when stabilized.

P = Peak Hold - Highest weight is locked on the display. Good for measuring forces.

N = No Hold - The weight does not lock on the display.

VIII. Calibration

Calibration and adjustment are performed at the factory. There is no need to calibrate unless you are experiencing issues. Only advanced users should calibrate and adjust the scale. To check calibration:

1. Place the required calibration weight on the scale and note the displayed value.
2. If the displayed value is not within acceptable tolerance (see chart on next page), adjustment is required.

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Model	Acceptable Tolerance (\pm)	Calibration Weight	Recommended Accuracy Class
TL-330	0.3kg	100kg	OIML M3
TL-440	0.6kg	100kg	OIML M3

IX. Adjustment

1. With the scale OFF, press and hold the UNIT and ON/OFF/TARE keys at the same time until a random number shows on the LCD. If you wish to cancel, press the HOLD key, otherwise, continue to step 2.
2. Make sure there is no weight on the hook then press the ON/OFF/TARE key once more. The display will flash "Zero" followed by the required weight in KG (100kg).
3. Place the required weight on the scale hook.
4. Wait briefly for the weight to stabilize, then press the ON/OFF/TARE key one last time to confirm.
5. The display will show "PASS". Calibration is complete.

X. Troubleshooting

- **Problem:** Scale will not turn on
Solution: Check the batteries and ON/OFF lock
- **Problem:** Display will not stabilize
Solution: Make sure the weight is stable on the hook and not shaking or swinging
- **Problem:** Displayed weight is inaccurate
Solution: Perform a calibration adjustment

XI. Error Codes

1. **OUTZ** - Zero range has shifted. Perform calibration adjustment. If the problem persists, the load cell may be permanently damaged due to overloading.
2. **O_Ld** - Maximum capacity exceeded. Remove the extra weight to avoid damaging the load cell.
3. **Lo** - Low Power. Replace the batteries.

XII. Specifications

	TL-330	TL-440
Max. Capacity	150kg / 330lb / 5280oz	200kg / 440lb / 7040oz
Readability	0.1kg / 0.2lb / 1oz	0.2kg / 0.5lb / 2oz
Min. Capacity	0.3kg / 0.6lb / 3oz	0.6kg / 1.5lb / 6oz
Power	2 x AAA	
Dimensions	6.0 x 2.8 x 1.2 in.	
Hook Dimensions	Gap: 0.7 in / Throat: 1.3 in	
Warranty	10 Year Limited Warranty	